

### Claims

1. A method for treating and/or preventing the recurrence of cancer, which  
5 comprises the steps of
  - a) providing lymphocytes obtained from sentinel lymph nodes from a patient;
  - b) and expanding the lymphocytes in vitro.
2. The method according to claim 1, wherein step (b) comprises stimulating the  
10 lymphocytes in vitro by the addition of cytokines or antibodies.
3. The method according to claim 2, wherein the cytokines are IL-2, INF- $\alpha$ , IL-12 and anti IL4 antibody.
- 15 4. The method according to claim 2 or 3, wherein the antibody is an anti-CD3, and/or an anti CD28 antibody.
5. The method according to any of the claims 1 to 4, wherein step (b) comprises exposing the lymphocytes provided in step a) to an additional activation signal.
- 20 6. The method according to claim 5, wherein the activation signal comprises exposing the lymphocytes to an autologous tumor extract or a recombinant antigen.
7. The method according to claim 5 or 6, wherein the activation is carried out in the  
25 presence of antigen presenting cells.
8. The method according to claim 7, wherein the antigen presenting cell comprises B-cell, macrophages, monocytes, dendritic cells, Langerhans cells.
- 30 9. The method according to any of the preceding claims, wherein the lymphocytes are derived from human or animal origin.

10. A kit for carrying out the method according to any of the preceding claims, comprising a dye and a substance capable to stimulate proliferation of lymphocytes.